

SEQUENCE LISTING

<110> INCYTE PHARMACEUTICALS, INC.
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TANG, Y. Tom; AZIMZAI, Yalda

<120> CANCER ASSOCIATED PROTEINS

<130> PF-0661 USN

<140> US 09/889,617

<141> To Be Assigned

<150> US 00/01565

<151> 2000-01-21

<150> US 09/236,205

<151> 1999-01-22

<150> US 60/183,027

<151> 1999-01-22

<160> 9

<170> PERL Program

<210> 1

<211> 465

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1518859CD1

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Phe	Leu	Thr	Pro	Ala	Val	Thr	Pro	Thr	Trp	Tyr	Ala	Gly	Ser	Gly
			20					25						30
Tyr	Tyr	Pro	Asp	Glu	Ser	Tyr	Asn	Glu	Val	Tyr	Ala	Glu	Glu	Val
			35					40						45
Pro	Gln	Ala	Pro	Ala	Leu	Asp	Tyr	Arg	Val	Pro	Arg	Trp	Cys	Tyr
			50					55						60
Thr	Leu	Asn	Ile	Gln	Asp	Gly	Glu	Ala	Thr	Cys	Tyr	Ser	Pro	Lys
			65					70						75
Gly	Gly	Asn	Tyr	His	Ser	Ser	Leu	Gly	Thr	Arg	Cys	Glu	Leu	Ser
			80					85						90
Cys	Asp	Arg	Gly	Phe	Arg	Leu	Ile	Gly	Arg	Arg	Ser	Val	Gln	Cys
			95					100						105
Leu	Pro	Ser	Arg	Arg	Trp	Ser	Gly	Thr	Ala	Tyr	Cys	Arg	Gln	Met
			110					115						120
Arg	Cys	His	Ala	Leu	Pro	Phe	Ile	Thr	Ser	Gly	Thr	Tyr	Thr	Cys
			125					130						135
Thr	Asn	Gly	Val	Leu	Leu	Asp	Ser	Arg	Cys	Asp	Tyr	Ser	Cys	Ser

140	145	150
Ser Gly Tyr His Leu Glu Gly Asp Arg	Ser Arg Ile Cys Met Glu	
155	160	165
Asp Gly Arg Trp Ser Gly Gly Glu Pro	Val Cys Val Asp Ile Asp	
170	175	180
Pro Pro Lys Ile Arg Cys Pro His Ser	Arg Glu Lys Met Ala Glu	
185	190	195
Pro Glu Lys Leu Thr Ala Arg Val Tyr	Trp Asp Pro Pro Leu Val	
200	205	210
Lys Asp Ser Ala Asp Gly Thr Ile Thr	Arg Val Thr Leu Arg Gly	
215	220	225
Pro Glu Pro Gly Ser His Phe Pro Glu	Gly Glu His Val Ile Arg	
230	235	240
Tyr Thr Ala Tyr Asp Arg Ala Tyr Asn	Arg Ala Ser Cys Lys Phe	
245	250	255
Ile Val Lys Val Gln Val Arg Arg Cys	Pro Thr Leu Lys Pro Pro	
260	265	270
Gln His Gly Tyr Leu Thr Cys Thr Ser	Ala Gly Asp Asn Tyr Gly	
275	280	285
Ala Thr Cys Glu Tyr His Cys Asp Gly	Gly Tyr Asp Arg Gln Gly	
290	295	300
Thr Pro Ser Arg Val Cys Gln Ser Ser	Arg Gln Trp Ser Gly Ser	
305	310	315
Pro Pro Ile Cys Ala Pro Met Lys Ile	Asn Val Asn Val Asn Ser	
320	325	330
Ala Ala Gly Leu Leu Asp Gln Phe Tyr	Glu Lys Gln Arg Leu Leu	
335	340	345
Ile Ile Ser Ala Pro Asp Pro Ser Asn	Arg Tyr Tyr Lys Met Gln	
350	355	360
Ile Ser Met Leu Gln Gln Ser Thr Cys	Gly Leu Asp Leu Arg His	
365	370	375
Val Thr Ile Ile Glu Leu Val Gly Gln	Pro Pro Gln Glu Val Gly	
380	385	390
Arg Ile Arg Glu Gln Gln Leu Ser Ala	Asn Ile Ile Glu Glu Leu	
395	400	405
Arg Gln Phe Gln Arg Leu Thr Arg Ser	Tyr Phe Asn Met Val Leu	
410	415	420
Ile Asp Lys Gln Gly Ile Asp Arg Asp	Arg Tyr Met Glu Pro Val	
425	430	435
Thr Pro Glu Glu Ile Phe Thr Phe Ile	Asp Asp Tyr Leu Leu Ser	
440	445	450
Asn Gln Glu Leu Thr Gln Arg Arg Glu	Gln Arg Asp Ile Cys Glu	
455	460	465

<210> 2

<211> 400

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2616269CD1

<400> 2

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20	25	30	
Leu Asp Met Arg Ala Leu Gly Arg Leu Ala Gln Val Cys Arg Trp			
35	40	45	
Leu Arg Arg Phe Thr Ser Cys Asp Leu Leu Trp Arg Arg Ile Ala			
50	55	60	
Arg Ala Ser Leu Asn Ser Gly Phe Thr Arg Leu Gly Thr Asp Leu			
65	70	75	
Met Thr Ser Val Pro Val Lys Glu Arg Val Lys Val Ser Gln Asn			
80	85	90	
Trp Arg Leu Gly Arg Cys Arg Glu Gly Ile Leu Leu Lys Trp Arg			
95	100	105	
Cys Ser Gln Met Pro Trp Met Gln Leu Glu Asp Asp Ser Leu Tyr			
110	115	120	
Ile Ser Gln Ala Asn Phe Ile Leu Ala Tyr Gln Phe Arg Pro Asp			
125	130	135	
Gly Ala Ser Leu Asn Arg Arg Pro Leu Gly Val Phe Ala Gly His			
140	145	150	
Asp Glu Asp Val Cys His Phe Val Leu Ala Asn Ser His Ile Val			
155	160	165	
Ser Ala Gly Gly Asp Gly Lys Ile Gly Ile His Lys Ile His Ser			
170	175	180	
Thr Phe Thr Val Lys Tyr Ser Ala His Glu Gln Glu Val Asn Cys			
185	190	195	
Val Asp Cys Lys Gly Gly Ile Ile Val Ser Gly Ser Arg Asp Arg			
200	205	210	
Thr Ala Lys Val Trp Pro Leu Ala Ser Gly Arg Leu Gly Gln Cys			
215	220	225	
Leu His Thr Ile Gln Thr Glu Asp Arg Val Trp Ser Ile Ala Ile			
230	235	240	
Ser Pro Leu Leu Ser Ser Phe Val Thr Gly Thr Ala Cys Cys Gly			
245	250	255	
His Phe Ser Pro Leu Arg Ile Trp Asp Leu Asn Ser Gly Gln Leu			
260	265	270	
Met Thr His Leu Gly Ser Asp Phe Pro Pro Gly Ala Gly Val Leu			
275	280	285	
Asp Val Met Tyr Glu Ser Pro Phe Thr Leu Leu Ser Cys Gly Tyr			
290	295	300	
Asp Thr Tyr Val Arg Tyr Trp Asp Leu Arg Thr Ser Val Arg Lys			
305	310	315	
Cys Val Met Glu Trp Glu Glu Pro His Asp Ser Thr Leu Tyr Cys			
320	325	330	
Leu Gln Thr Asp Gly Asn His Leu Leu Ala Thr Gly Ser Ser Tyr			
335	340	345	
Tyr Gly Val Val Arg Leu Trp Asp Arg Arg Gln Arg Ala Cys Leu			
350	355	360	
His Ala Phe Pro Leu Thr Ser Thr Pro Leu Ser Ser Pro Val Tyr			
365	370	375	
Cys Leu Arg Leu Thr Thr Lys His Leu Tyr Ala Ala Leu Ser Tyr			
380	385	390	
Asn Leu His Val Leu Asp Phe Gln Asn Pro			
395	400		

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3117642CD1

<400> 3

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  20          25          30
Val Glu Ser Pro Thr Gln Ser Gln Asp Ser Thr Pro Ala Glu Glu
  35          40          45
Arg Glu Asp Glu Gly Ala Ser Ala Ala Gln Gly Gln Glu Pro Glu
  50          55          60
Ala Asp Ser Gln Glu Leu Val Gln Pro Lys Thr Gly Cys Glu Leu
  65          70          75
Gly Asp Gly Pro Asp Thr Lys Arg Val Cys Leu Arg Asn Glu Glu
  80          85          90
Gln Met Lys Leu Pro Ala Glu Gly Pro Glu Pro Glu Ala Asp Ser
  95          100         105
Gln Glu Gln Val His Pro Lys Thr Gly Cys Glu Arg Gly Asp Gly
  110         115         120
Pro Asp Val Gln Glu Leu Gly Leu Pro Asn Pro Glu Glu Val Lys
  125         130         135
Thr Pro Glu Glu Asp Glu Gly Gln Ser Gln Pro
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<210> 4

<211> 2152

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1518859CB1

<400> 4

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ttggcagatg tggacgtcgt aacatctggg cagtgttaac agaatcccg aggcggggac 180
agaccaggag ccactcgttc taggaatggt aaagtagaag gttttttcca attgatgaga 240
ggagcagaga ggaaggagaa agaggaggag agagaaaaag ggcacaaaat accataaaac 300
agatcccata tttctgcttc cctcacttt tagaagttaa ttgatggctg acttctgaaa 360
gtcacttttc tttgcctgg tacttcaggc catatacatc ttttcttgtc tccataatcc 420
tccctttcaa ggatggccag tcagetaact caaagaggag ctctctttct gctgtttctc 480
ctaactccgg cagtgcaccc aacatggtat gcaggttctg gctactatcc ggatgaaagc 540
tacaatgaag tatatgcaga ggaggtecca caggctcctg ccctggacta ccgagtcccc 600
cgatggtggt atacattaaa tatccaggat ggagaagcca catgctactc accgaaggga 660
ggaaattatc acagcagcct gggaacgcgt tgtgagctct cctgtgaccg gggttttcga 720
ttgattggaa ggaggtcggg gcaatgcctg ccaagccgtc gttggtctgg aactgcctac 780
tgcaggcaga tgagatgcca cgcactacca ttcatacata gtggcactta caactgcaca 840
aatggagtgc ttcttgactc tcgctgtgac tacagctggt ccagtggtta ccacctggaa 900

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 gagaaattga ctgctcgagt atactgggac ccaccgttgg tgaaagattc tgctgatggt 1080
 accatcacca gggtgacact tgggggacct gagcctggct ctactttcc cgaaggagag 1140
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 gtgaaagtac aagtgagacg ctgcccact ctgaaacctc cgcagcacgg ctacctcacc 1260
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 gaaaagctcc tctagtttagc tgaaactggg acctataaaa aggaggaaat gttttccac 1920
 agttctaggg acaggactct gaggtgggtg agtttgacaa atctgcagt gtttccaggc 1980
 atcttttag gactgtgtaa tagtttccct agaagctagg tagggactga ggacaggcct 2040
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<210> 5
 <211> 1888
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2616269CB1

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 tcatctgctc ctacctggac atgggggccc tgggcgcctt ggcccagggt tgcgctggc 180
 tgcggcgctt caccagctgc gatctgctct ggcgcgggat agcccgggccc tgcctcaact 240
 ccggcttcac gcggctcggc accgacctga tgaccagtgt cccagtgaag gaacgagtga 300
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 gcagtcagat gccctggatg cagctagagg atgattctct gtacatatcc caggctaatt 420
 tcatctggc ctaccagttc cgtccagatg gtgccagctt gaatcgtcgg cctctgggag 480
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 gtgcaggagg ggatgggaag attggcattc ataagattca cagcaccttc actgtcaagt 600
 actcggctca tgaacaggag gtgaactgtg tggattgcaa agggggcctc attgtgagt 660
 gctccaggga caggacggcc aagggtgtggc ctttggcctc aggcgggctg gggcagtgct 720
 tacacacccat ccagactgaa gaccaggtct ggtccattgc taccagccca ttactcagct 780
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 cctgcctctt gggccaggga aaccagctac tcagggaact ctcttgctg gagggtgcag 1320
 tgatagctcc tctcactgc cccactgtgc tcttgggctt gtgacccag tgctcaggca 1380

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ccttgcaacta gaggtttctg actcctggga ctttggagct taccagagat gcagtccttc 1440
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gentccctgt ttggccagag caaggatctg gcttggagag gcccatccta tacccttat 1560
taragccatg acagcctaca gaggtaggtg aggtgctccc acctcccag atggttcctt 1620
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tgctttgaaa ccaagaaaga gcaaagggaa cccagcagtt ctgagttagt tctgagccag 1800
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tgattgttca cagaaaaaaaa aaaaaaaaa 1888

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<210> 6
 <211> 650
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3117642CB1

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ctaagaagat taatctatcg gcgtagacca atgatctatg tagaatcttc tgaggagtcc 180
agtgatgagc aacctgacga agtggaatca ccaactcaaa gtcaggattc tacacctgct 240
gaagagagag aggatgaggg agcatctgca gctcaagggc aggagcctga agctgatagc 300
caggaaactgg ttcagccaaa gactgggtgt gagcttggag atggctctga taccaagagg 360
gtgtgcctgc gaaatgaaga gcagatgaaa ctgcccgcag aagggccaga gctgaagcgc 420
gatagccagg aacaggttca cccgaagact ggggtgtgag cgggagatgg tctgatgtc 480
caggagtgtg gcttgccaaa tccagaggag gtgaaaacac ctgaggaaga tgaagggcaa 540
tcacagcctt aaaagaagac acgctgaaat gggtcaggct gctcctgtgt tggaaatttg 600
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<210> 7
 <211> 464
 <212> PRT
 <213> Rattus norvegicus

<220>
 <221> misc_feature
 <223> GenBank ID No: g1345423

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<400> 7
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20 25 30
Phe Pro Gly Ser Gly Asp Ser Pro Leu Glu Asp Asp Gly Val Trp
35 40 45
Ser Ser His Ser Leu Tyr Lys Asp Thr Pro Trp Cys Ser Pro Ile
50 55 60
Lys Val Lys Tyr Gly Asp Val Tyr Cys Arg Ala Pro Pro Gly Gly
65 70 75
Tyr Tyr Lys Thr Ala Leu Gly Thr Arg Cys Asp Ile Arg Cys Arg
80 85 90

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Lys Gly Tyr Glu Leu His Gly Ser Ser	Gln Leu Val Cys Gln Ser	
95	100	105
Asn Arg Arg Trp Ser Asp Lys Val Ile	Cys Lys Gln Lys Arg Cys	
110	115	120
Pro Thr Leu Thr Met Pro Ala Asn Gly	Gly Phe Lys Cys Val Asp	
125	130	135
Gly Ala Tyr Phe Asn Ser Arg Cys Glu	Tyr Tyr Cys Ser Pro Gly	
140	145	150
Tyr Thr Leu Lys Gly Glu Arg Thr Val	Thr Cys Met Asp Asn Lys	
155	160	165
Ala Trp Ser Gly Arg Pro Ala Ser Cys	Val Asp Met Glu Pro Pro	
170	175	180
Arg Ile Lys Cys Pro Ser Val Lys Glu	Arg Ile Ala Glu Pro Asn	
185	190	195
Lys Leu Thr Val Arg Val Ser Trp Glu	Thr Pro Glu Gly Arg Asp	
200	205	210
Thr Ala Asp Gly Ile Leu Thr Asp Val	Ile Leu Arg Gly Leu Pro	
215	220	225
Pro Gly Ser Asn Phe Pro Glu Gly Asp	His Lys Ile Glu Tyr Thr	
230	235	240
Val Tyr Asp Arg Ala Glu Asn Lys Gly	Thr Cys Lys Phe Arg Val	
245	250	255
Lys Val Arg Val Arg Arg Cys Gly Lys	Leu Asn Ala Pro Glu Asn	
260	265	270
Gly Tyr Met Lys Cys Ser Ser Asp Gly	Asp Asn Tyr Gly Ala Thr	
275	280	285
Cys Glu Phe Ser Cys Ile Gly Gly Tyr	Glu Leu Gln Gly Ser Pro	
290	295	300
Ala Arg Val Cys Gln Ser Asn Leu Ala	Trp Ser Gly Thr Glu Pro	
305	310	315
Ser Cys Ala Ala Met Asn Val Asn Val	Gly Val Arg Thr Ala Ala	
320	325	330
Ala Leu Leu Asp Gln Phe Tyr Glu Lys	Arg Arg Leu Leu Ile Val	
335	340	345
Ser Thr Pro Thr Ala Arg Asn Leu Leu	Tyr Arg Leu Gln Leu Gly	
350	355	360
Met Leu Gln Gln Ala Gln Cys Gly Leu	Asp Leu Arg His Ile Thr	
365	370	375
Val Val Glu Leu Val Gly Val Phe Pro	Thr Leu Ile Gly Arg Ile	
380	385	390
Arg Ala Lys Ile Met Pro Pro Ala Leu	Ala Leu Gln Leu Arg Leu	
395	400	405
Leu Leu Arg Ile Pro Leu Tyr Ser Phe	Ser Met Val Leu Val Asp	
410	415	420
Lys His Gly Met Asp Lys Glu Arg Tyr	Val Ser Leu Val Thr Pro	
425	430	435
Met Ala Leu Phe Asn Leu Ile Asp Thr	Phe Pro Leu Arg Lys Glu	
440	445	450
Glu Met Ile Leu Gln Ala Glu Met Gly	Gln Ser Cys Asn Thr	
455	460	

<210> 8

<211> 278

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> GenBank ID No: g487348

<400> 8

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20      25      30
Ala Ala Asp Gly Glu Gly Gly Ser Gly Pro Gly Ala Glu Ala Gly
35      40      45
Ala Arg Thr Arg Pro Arg Glu Glu Ala Glu Gly Gly Gly Ser Val
50      55      60
Glu Glu Gly Ala Arg Gly Ile Ile Lys Gly Asp Glu Gly Ser Val
65      70      75
Gly Ala Gly Lys Glu Ala Gln Gly Arg Lys Tyr Gly Lys Glu Glu
80      85      90
Trp Arg Val Arg Ala Arg Arg Arg Glu Gly Ala Arg Pro Gly Arg
95      100      105
Val Gln Gly Gln Gly Gly Gln Val Trp Ala Tyr Ile Pro Gly Thr
110      115      120
Gly Ala Ala Met Ala Ala Ala Ala Arg Glu Glu Glu Glu Ala
125      130      135
Ala Arg Glu Ser Ala Ala Cys Pro Ala Ala Gly Pro Ala Leu Trp
140      145      150
Arg Leu Pro Glu Val Leu Leu Leu His Met Cys Ser Tyr Leu Asp
155      160      165
Met Arg Ala Leu Gly Arg Leu Ala Gln Val Tyr Arg Trp Leu Trp
170      175      180
His Phe Thr Asn Cys Asp Leu Leu Arg Arg Gln Ile Ala Trp Ala
185      190      195
Ser Leu Asn Ser Gly Phe Thr Arg Leu Gly Thr Asn Leu Met Thr
200      205      210
Ser Val Pro Val Lys Val Ser Gln Asn Trp Ile Val Gly Cys Cys
215      220      225
Arg Glu Gly Ile Leu Leu Lys Trp Arg Cys Ser Gln Met Pro Trp
230      235      240
Met Gln Leu Glu Asp Asp Ala Leu Tyr Ile Ser Gln Ala Asn Phe
245      250      255
Ile Leu Ala Tyr Gln Phe Arg Pro Asp Gly Ala Ser Leu Asn Arg
260      265      270
Gln Pro Leu Gly Val Cys Trp Ala
275

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<210> 9

<211> 116

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> GenBank ID No: g3511023

<400> 9

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Met Ser Trp Arg Gly Arg Ser Thr Tyr Arg Pro Arg Pro Arg Arg

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Tyr Val Glu Pro	Pro Glu Met Ile Gly	Pro Met Arg Pro	Glu Gln
	20	25	30
Phe Ser Asp Glu	Val Glu Pro Ala Thr	Pro Glu Glu Gly	Glu Pro
	35	40	45
Ala Thr Gln Arg	Gln Asp Pro Ala Ala	Ala Gln Glu Gly	Glu Asp
	50	55	60
Glu Gly Ala Ser	Ala Gly Gln Gly Pro	Lys Pro Glu Ala	Asp Ser
	65	70	75
Gln Glu Gln Gly	His Pro Gln Thr Gly	Cys Glu Cys Glu	Asp Gly
	80	85	90
Pro Asp Gly Gln	Glu Met Asp Pro Pro	Asn Pro Glu Glu	Val Lys
	95	100	105
Thr Pro Glu Glu	Gly Glu Lys Gln Ser	Gln Cys	
	110	115	